



## ICBM

Sample output and input from ASR-33 is shown below with explanations in parenthesis.

(Program is started at  $\emptyset 2 \emptyset \emptyset_{R}$ .)

## INSTRUCTIONS

Speeds S/B < or= to 3Ø. Return key will ask questions again. Rubout will return to system. Note: Control keys operate only during display. (Control keys are return and rubout.) (S/B=should be less than or equal to 3Ø<sub>8</sub>.) Rocket speed=12 UFO speed=14 (Both speeds are octal numbers followed by a return.)

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Hit a key to fire rocket.
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(Any key except the 2 control keys will fire the rocket.)
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Rocket speed=(At this point I finally hit the saucer and it is asking me for another rocket speed)

UFO speed=1.

Hit a key to fire rocket.

Rocket speed=(I didn't hit it this time but hit the return key to ask the questions again.)

UFO speed=3.

Hit a key to fire rocket.

Rocket speed=13. UFO speed=3Ø.

Hit a key to fire rocket.

(Rubout hit here and the program went to the system.)

Escape.

Another version of the program is available if you have the following equipment: Light Pen, at least 4 channel multiplexor, analog to digital convertor, hardware character generator.

		1 A 11 E 19G
		/ 4/15/70 7ITLE ICBM-1970 TTY VERSION
		TITLE ICBM-1970 TTY VERSION CFLYING SAUCER-ROCKET PROGRAM
		/FOR THE PDP-S COMPUTER.
		PFOR SHE FUP-5 CUMPULER.
0934	***	Mescni / O
12 1 : 61	www.	ALL CONSTANTS AND VARIABLES USED IN ROCKET, FS.
		<pre>/LOCATIONS 10-17 USED AS AUTO-INDEXING REGISTERS. *20</pre>
6220	8 <b>90</b> 8	SPEEDR.2
0.021 0.021	6398	SPERDE-0
0655	ra <b>00</b>	MROCK, Ø
Ø <b>923</b>	0000	NF Sa@
CNG 64 42	GJ 88 YJ 80	/ROCKET STALL CONSTANT.
0024	7213	STALA-565
9025	~55 <b>3</b>	
9026	0212	
0927		RETURN
0030	0090	SYM . Ø
003:	1201	MESSAG-1
0932		INSTR/INSDAT-1
0033	0001	Clal
0034	0000	COUNTROO
3035	9090	COUNTE
0036		CROCKP 2000-1
0037		CROCK ROCDAT-1
09 <b>4</b> 9	1377	CFSDAT.FLYDAT-1
0041	2377	CFSDAP, 2400-1
6042	1488	CFSDAA, FLYDAT
6943	7401	M377, - 377
0044	6200	H1690,-1600
0045	0000	DIVIDE.0
		ADDRESS EXIT TO DIGITAL DECTAPE SYSTEM.
		ALTER THIS ADDRESS TO SUIT YOUR OWN USE.
0646	7600	C76R9,7699
00A7	0007	G7.7
0950	7740	MN2 To - 40
0051 0051	0000	Tempa.0
0052	0000	TEMPB.0
0053 005	0000	
9654 0655	7775	
0055 0052	0741	CRLFEN, CRLF
0056 0057	0377 0100	C377,377 CRAISE, 430
0057 0060	0400 0020	CRAISE, 400 C20, 20
<b>8961</b>	0725	PRNT (PRNT 1
0062 0062	0600	TESTAT. TEST
<b>8963</b>	8848	CHIT.40
0864	0000	XRDO
0065	0206	GHOST, REST
		HIT CHECK COORDINATES.
0066	2176	CR1, TAGR1 +1000
0067	2177	GR2, TAGR2+1000
0070	2502	CF1.TAGF1+1080
6071	2503	CF2.TAGF2+1000
9072	0786	CHAN, CHANG
0073	0400	Rocket, Rockt
<b>00</b> 74	0500	FSOFLY
0075	0421	ROCINI, ROCIN
0076	0520	SAUINI.FSINI
0077	0443	STALL 2

@1 <i>@0</i>	0750	Check J Ccheck
C101	9690	Temp.0
	0000	
		INSTUP, SE03 /JMP LOC 003 CURRENT PAGE.
		M100,-100
0105	7500	m300,-380
		*200
		MAIN PROGRAM TO CONTROL THE ROCKET AND UFO.
<u>6296</u>	4472	
	-	
6201	6032	KCC
		PRINT INSTRUCTIONS THE FIRST TIME.
\$2.03	4071	JMS GETSTR
0200	7200	CLA
		TAD INSTUP
		DCA BEGIN
0206	6032	REST, KCC
		/get speeds.
0207	4276	JMS GET
02:0	0055	JMS 3 CRLFEN
		TAD SPEEDR
		JMS DIVID
Ø213	5232	JMP PUTIN
		/DIVIDE SUBROUTINE.
		CALCULATE HOW MANY TIMES TO ADD SPEED
		150 THE SCOPE IS NOT OVERFLOWED.
021A	0000	DIVIDO
	3161	DCA TEMP
		DCA DIVIDE
		TAD TEMP
		SNA CLA
022:	5206	JMP REST
6222	1004	TAD M1600
		TAD TEMP
+ ++		ISZ DIVIDE
	7510	
9329		JMP ··· 3
0227	7200	CLA
0230	1045	TAD DIVIDE
0231	5614	JMP I DIVID
6020	3022	
		TAD SPEEDF
		JMS DIVID
0235	3023	DCA MFS
		MAIN DISPLAY CONTROL.
0236	aa75	/RESET ROCKET & FLYING SAUCER.
		/RESET ROCKET & FLYING SAUCER. Start, JMS I Rocini
0237	4476	/RESET ROCKET & FLYING SAUCER. Start, JMS I Rocini JMS I Sauini
0237 0 <b>240</b>	4476 6931	/RESET ROCKET & FLYING SAUCER. Start, JMS I Rocini JMS I Sauini Goon, KSF
0237 0 <b>240</b>	4476 6931	/RESET ROCKET & FLYING SAUCER. Start, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS
0237 0 <b>240</b>	4476 6931	/RESET ROCKET & FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG#1 SEE IF RUB-OUT OR RETURN,
0237 0 <b>240</b>	4476 6931	/RESET ROCKET & FLYING SAUCER. Start, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS
0237 0240 0241	4476 6931	/RESET ROCKET & FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG#1 SEE IF RUB-OUT OR RETURN, /IF NEITHER START DISPLAYING ROCKET.
0237 0240 0241 0241	4476 6031 5260 7200	/RESET ROCKET & FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG#1 SEE IF RUB-OUT OR RETURN, /IF NEITHER START DISPLAYING ROCKET. CLA
0237 0240 0241 0242 0242	4476 6031 5260 7200 6034	/RESET ROCKET & FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG#1 SEE IF RUB-OUT OR RETURN, /IF NEITHER START DISPLAYING ROCKET. CLA KRS
0237 0240 0241 0242 0243 0243	4476 6031 5260 7200 6034 1025	<pre>/RESET ROCKET &amp; FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG⇒1 SEE IF RUB-OUT OR RETURN, /IF NEITHER START DISPLAYING ROCKET. CLA KRS TAD MRETURM</pre>
0237 0240 0241 0242 0243 0243 0244 0245	4476 6031 5260 7200 6034 1025 7650	<pre>/RESET ROCKET &amp; FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG⇒1 SEE IF RUB-OUT OR RETURN, /IF NEITHER START DISPLAYING ROCKET. CLA KRS TAD MRETURN SNA CLA</pre>
0237 0240 0241 0242 0243 0243 0245 0245	4476 6031 5260 7200 6034 1025 7650 5296	<pre>/RESET ROCKET &amp; FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG#1 SEE IF RUB-OUT OR RETURN, /IF NEITHER START DISPLAYING ROCKET. CLA KRS TAD MRETURN SNA CLA JMP REST</pre>
0237 0240 0241 0242 0243 0243 0245 0245 0245	4476 6031 5260 7200 6034 1025 7650 5296 6934	<pre>/RESET ROCKET &amp; FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG#1 SEE IF RUB-OUT OR RETURN, /IF NEITHER START DISPLAYING ROCKET. CLA KRS TAD MRETURN SNA CLA JMP REST KRS</pre>
0237 0240 0241 0242 0243 0243 0245 0245 0245 0245 0245	4476 6031 5260 7200 6034 1025 7650 5296 6034 1043	<pre>/RESET ROCKET &amp; FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG=1 SEE IF RUB-OUT OR RETURN. /IF NEITHER START DISPLAYING ROCKET. CLA KRS TAD MRETURN SNA CLA JMP REST KRS TAD M3T7</pre>
0237 0240 0241 0242 0243 0243 0243 0245 0245 0245 0259 0251	4476 6031 5260 7200 6034 1025 7650 5206 6034 1043 7450	<pre>/RESET ROCKET &amp; FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG=1 SEE IF RUB-OUT OR RETURN, /IF NEITHER START DISPLAYING ROCKET. CLA KRS TAD MRETURN SNA CLA JMP REST KRS TAD M377 SNA</pre>
0237 0240 0241 0242 0243 0243 0243 0245 0245 0245 0259 0251	4476 6031 5260 7200 6034 1025 7650 5206 6034 1043 7450	<pre>/RESET ROCKET &amp; FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG=1 SEE IF RUB-OUT OR RETURN. /IF NEITHER START DISPLAYING ROCKET. CLA KRS TAD MRETURN SNA CLA JMP REST KRS TAD M3T7</pre>
0237 0240 0241 0242 0243 0243 0243 0245 0245 0250 0250 0251 0252	4476 6031 5260 7200 6034 1025 7650 5206 6034 1043 7450 4500	<pre>/RESET ROCKET &amp; FLYING SAUCER. START, JMS I ROCINI JMS I SAUINI GOON, KSF JMP CONTFS /IF FLAG=1 SEE IF RUB-OUT OR RETURN, /IF NEITHER START DISPLAYING ROCKET. CLA KRS TAD MRETURN SNA CLA JMP REST KRS TAD M377 SNA</pre>

0254 2034 ISZ COUNTR 0233 5260 JMP .+3 /17 THE ROCKET IS AT THE TOP OF THE SCREEN ARESET IT AND CLEAR THE FLAG. 2258 4175 JMS I ROCINI 9237 6432 NCC CONTES, JMS I FS \$269 B. C. C. A 6935 3563 KSF 9262 6.077 JMS I STALL SEE IF IT IS A HIT. 2243 1062 JMS I TESTHT Becch 7200 CLA 0265 2635 LSZ COUNTE 2018 9266 SKP **PRESET FLYING SAUCER.** 0267 4476 JMS I SAUINI 0276 5240 JMP GOON ATMIS IS THE ROUTINE THAT PRINTS OUT THE INSTRUCTIONS. 6271 0000 GETSTR.0 9272 7200 CLA @@ ? ? 1032 TAD INSTR 6274 3036 DCA MESCNT 6275 5301 SMP .+4 ATMIS IS THE ROUTINE THAT GETS THE PARAMETERS. 0276 0263 SET, 203 0277 1031 TAD MESS 0300 3014 DCA MESCHT M301 6.455 SMS I CREPEN 0202 :066 TAD C20 6363 3:01 DCA TEMP 0304 3020 DCA SPEEDR 6365 3021 DCA SPEEDF 0306 1414 CONTUE, TAD I MESCNT 0307 7510 SPA 03:0 5676 JMP I GET 0311 7440 SZA 0312 5314 JMP CONTS 2313 5316 JMP GETCAR 0314 4461 CONTO, JMS I PRNT 63:5 5206 JMP CONTUE 0316 6031 GETCAR, KSF 9317 5316 .MP -- 1 0320 6036 KRS 0321 3030 DCA SYM 0322 1030 TAD SYM 0323 4163 JMS 1 PRNT VRETURN SIGNIFIES END OF ENTRY. 0324 1036 tad sym 0325 1925 TAD MRETURN 7610 0326 SZA CLA 0327 5333 JMP CONTS 0330 4455 JMS & CRLFEN ISZ TEMP 0331 2101 9332 JMP CONTUE 5306 0333 1030 CONTS, TAD SYM M334 0047 AND C7 0335 3030 DCA SYM 0335 :501 TAO I TEMP 0337 7106 0249 7994 CLL RTLIRAL 4 S3A1 1030 TAD SYM \$3A2 3591 OCA ! TEMP

JMP GETCAR /3388888888EDITING BREAKISSSSSSS /ROCKET SUBROUTINE. \*18 XCO.Ø XPUT . Ø \*400 ROCKT,Ø SAØ1 RESET, CLA TAD CROCKP DCA XPUT TAD CROCKP DCA XCO STARTA, TAD I XCO SPA JMP & ROCKT DXL TAD SPEEDR DCA I XPUT TAD 1 XCO DYS TAD SPEEDR DCA & XPUT JMP STARTA **PRESET ROCKET TO STARTING POSITION.** ROCINO CLA TAD MROCK CIA 70A1 DCA COUNTR TAD CROCK DCA XCO TAD CROCKP DCA XPUT GOONI, TAD I XCO SPA JMP CONT DCA I XPUT JMP GOONI @437 CONT, DCA I XPUT TAD M1600 DCA I XPUT JMP I ROCIN ITHIS ROUTINE STALLS IF THE ROCKET IS NOT FIRING RSTALL,0 CLA **@444** TAD STAL DCA TEMP ISZ TEMP JMP -- 1 JMP I RSTALL /FLYING SAUCER SUBROUTINE. \*12 XC00,0 XPUTT,0 \*500 FLY,0 RESETT, CLA TAD CFSDAP DCA XPUTT

0504	1941	TAD CFSDAP
ASAS	1012	DCA XCOO
	1412	
15 P T L	75(0	
<b>2510</b>	5790	JMP I FLY
M51 1	6053	DXL
	1021	
0513		DCA I XPUTT
@514)	418	TAD I XCOO
0515	6067	DYS
0516	3413	DCA I XPUTT
Ø51	3305	JMP STARTT
1 Ban 10	and the sale	
		PRESET FLYING SAUCER TO STARTING POSITION.
9520	9 <b>666</b>	FSINI,0
Ø521	7200	CLA
0522	1023	TAD MFS
	7941	
		DCA COUNTE
		TAD CFSDAT
9526	3012	DCA XCOO
C287	1941	tad CFSDAP
		DCA XPUTT
		GOON2, TAD I XCOO
	7510	
		JMP CONTI
0534	34:3	DCA I APUTT
0535	5331	JMP GOON2
	3413	
		TAD M1600
	3413	DCA I XPUTT
9543	5720	JMP I FSINI
9543	5120	JMP I FSINI /Routine to see if it a hit.
9541	5720	ROUTINE TO SEE IF IT A HIT.
9541	5720	/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL
9543	2120	/ROUTINE TO SEE IF IT A HIT. /Constants C40 and M40 Control /How close you have to be to score a hit.
		/ROUTINE TO SEE IF IT A HIT. /Constants C40 and M40 Control /How Close you have to be to score a hit. #600
<b>069</b> 0	9999	/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0
		/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0
0690 969 1	9990 7290	/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. #600 TEST.0 CLA
8699 869 1 8692	9920 7298 1054	/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. #600 TEST.0 CLA TAD M3
0690 969 1 9692 9693	9999 7298 1954 3953	/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT
0690 969 1 9692 9693 9694	9999 7298 1954 3953 1467	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. #600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2</pre>
0690 060 1 0602 0603 0604 0605	9999 7299 1954 3953 1467 1963	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT</pre>
0690 969 1 9692 9693 9694 9695 0696	9999 7299 1954 3953 1467 1963 3951	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA</pre>
0690 060 1 0602 0603 0604 0605	9999 7299 1954 3953 1467 1963	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT</pre>
0690 9691 9692 9693 9694 9695 9696 8696	9999 7299 1954 3953 1467 1963 3951	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA</pre>
0690 9691 9693 9693 9694 9695 9696 9696 9697 9619	9999 7298 1954 3953 1467 1963 3951 1467 1959	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT</pre>
0690 9691 9692 9693 9694 9695 9696 9696 9697 9619 9611	9999 7299 1954 3953 1467 1963 3951 1467 1959 3952	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB</pre>
0690 0601 0602 0603 0604 0605 0606 0606 0606 0607 0610 0611 0612	9999 7299 1954 3953 1467 1963 3951 1467 1950 3952 1951	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPA</pre>
0690 0601 0602 0603 0604 0605 0606 0606 0606 0611 0612 0613	9999 7299 1954 3953 1467 1951 1951 1951 7941	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPA CIA</pre>
0690 9691 9692 9693 9694 9695 9696 9696 9611 9612 9613 9613	9999 7299 1954 3953 1463 1953 1951 1952 1951 7941 1471	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPA CIA TAD I CF2</pre>
0690 9691 9692 9693 9694 9695 9696 9696 9611 9612 9613 9613	9999 7299 1954 3953 1463 1953 1951 1952 1951 7941 1471	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPA CIA</pre>
0690 0691 0693 0693 0694 0695 0696 0696 0696 0696 0696 0611 0612 0613 0613 0613	9999 7299 1953 1463 1963 1963 1963 1951 7941 1471 7710	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPA CIA TAD I CF2</pre>
0690 9691 9693 9693 9694 9695 9696 9696 9619 9613 9613 9613 9613 9615 9616	9999 72954 3053 14653 14650 3051 7041 1471 7710 2053	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPA CIA TAD I CF2 SPA CLA ISZ CNT</pre>
0690 9691 9693 9693 9693 9693 9693 9693 9619 9613 9613	9000 72054 3053 14653 14650 30551 7041 14710 30551 70471 7710 2053	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPA CLA TAD I CF2 SPA CLA ISZ CNT ISZ CNT</pre>
0690 0601 0602 0603 0604 0605 0606 0605 0606 0605 0606 0611 0612 0613 0615 0616 0615 0616 0617 0620	9999 7299 1953 1463 1463 1463 1465 1951 1471 3951 1471 7719 2053 2053 1952	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPB TAD TEMPA CIA TAD I CF2 SPA CLA ISZ CNT TAD TEMPB</pre>
0690 0601 0602 0603 0603 0603 0603 0603 0603 0611 0612 0613 0614 0615 0616 0616 0617 0620 0621	9999 72954 3953 1953 1953 1953 1955 1955 1955 1955	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPA CIA TAD I CF2 SPA CLA ISZ CNT ISZ CNT TAD TEMPB GIA</pre>
0690 0691 0602 0603 0603 0603 0603 0603 0612 0612 0613 0614 0615 0616 0616 0617 0620 0621 06221 0622	9999 72953 14651 19653 14651 19652 1971 1471 20552 10552 10552 10552 10552 10552 10552 10552 10552 10552 10552 10552 10552 10552 10553 10555 10553 10553 10553 10553 10555 10553 10555 10553 10555 10553 10555 10553 10555 10553 10555 10553 105553 105553 105553 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 1055555 105555 105555 105555 1055555 1055555 1055555 1055555 1055555 1055555 10555555 10555555 1055555 1055555555	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPB TAD TEMPA CIA TAD I CF2 SPA CLA ISZ CNT ISZ CNT TAD TEMPB CIA TAD I CF2</pre>
0690 9691 9692 9693 9693 9693 9693 9694 9695 9695 9611 96112 96113 96114 96115 96116 96116 96116 96116 9621 96221 96223	9999 19253 19553 19553 19553 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19553 19555 19553 195555 195555 195555 195555 1955555 195555 195555 195555 195555 195	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPB TAD TEMPA CIA TAD I CF2 SPA CLA ISZ CNT ISZ CNT TAD TEMPB CIA TAD I CF2 SPA</pre>
0690 0691 0602 0603 0603 0603 0603 0603 0612 0612 0613 0614 0615 0616 0616 0617 0620 0621 06221 0622	9999 1953 1953 1953 1953 1953 1953 1955 1955	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPB TAD TEMPA CIA TAD I CF2 SPA CLA ISZ CNT ISZ CNT TAD TEMPB CIA TAD I CF2</pre>
0690 9691 9692 9693 9693 9693 9693 9694 9695 9695 9611 96112 96113 96114 96115 96116 96116 96116 96116 9621 96221 96223	9999 19253 19553 19553 19553 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19552 19553 19555 19553 195555 195555 195555 195555 1955555 195555 195555 195555 195555 195	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPB TAD TEMPA CIA TAD I CF2 SPA CLA ISZ CNT ISZ CNT TAD TEMPB CIA TAD I CF2 SPA</pre>
0699 0692 0693 0693 0693 0693 0693 0693 0693 0693	99994 314651 314651 39537 3954 3954 3954 3954 39554 39554 3955 3955	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. *600 TEST.0 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPB TAD TEMPA CIA TAD I CF2 SPA CLA ISZ CNT TAD TEMPB CIA TAD I CF2 SPA JMP TEST1 ISZ CNT</pre>
0699 0692 0693 0693 0693 0693 0693 0693 0693 0693	9299 10537 106517 10651 10651 10651 10651 10655 10671 17528 10671 17528 10633 10655 10635 10635 10635 10635 10635 10635 10635 10635 10635 10635 10635 10635 106555 106555 106555 106555 106555 106555 106555 106555 106555 106555 106555 106555 106555 106555 106555 1065555 1065555 1065555 1065555 1065555 1065555 1065555 1065555 10655555 10655555 106555555 106555555555 1065555555555	<pre>/ROUTINE TO SEE IF IT A HIT. /CONSTANTS C40 AND M40 CONTROL /HOW CLOSE YOU HAVE TO BE TO SCORE A HIT. #600 TEST.9 CLA TAD M3 DCA CNT TAD I CR2 TAD CHIT DCA TEMPA TAD I CR2 TAD MHIT DCA TEMPB TAD TEMPA CIA TAD I CF2 SPA CLA ISZ CNT ISZ CNT TAD TEMPB CIA TAD I CF2 SPA JMP TEST1 ISZ CNT JMP I TEST</pre>
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9632 S600 JMP LESTY

0633	7200	testy.cla
0634	1051	TAD M3
9635	3053	DCA CNT
Ø636	1466	TAD I CRI
-		TAD CHIT
0640		DCA TEMPA
		TAD I CR1
		TAD MHIT
		DCA TEMPB
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		TAD I CF1
		SPA CLA
		ISZ CNT
		ISZ CNT
-		TAD TEMPB
	7041	
		TAD I CF1
	7510	
		JMP TEST2
		ISZ CNT Imp i test
		JMP I TEST
		MP CRAZ
		TEST2, ISZ CNT
		JMP CRAZ
<u> 9664</u>	2048	JMP I TEST
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		CRAZ, CLA
9665 9667		TAD M3
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		DCA TEMP
6670	6032	KCC
6670 8671	6032 1410	KCC Crazy.tad I 10
0670 0671 0672	6032 1410 1410	KCC Crazy, Tad I 10 Tad I 10
0670 0671 0672 0673	6032 1410 1410 6953	KCC Crazy,Tad I 10 Tad I 10 DXL
0670 0671 0672 0673 0674	6032 1410 1410 6953 2051	KCC Crazy, Tad I 10 Tad I 10 Dxl ISZ TEMPA
0670 0671 0672 0673 0674 0675	6032 1410 1410 6953 2051 5277	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .+2
6670 0671 0672 0673 0674 0675 0675	6032 1410 1410 6953 2051 5277 5303	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .+2 JMP SEE
0670 0671 0672 0673 0674 0675 0675 0676	6032 1410 1410 6953 2051 5277 5303 7840	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .+2 JMP SEE SEEON.CMA
0670 0671 0672 0673 0674 0675 0676 0677 0700	6032 1410 1410 6953 2051 5277 5303 7040 1410	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .+2 JMP SEE SEEON.CMA CONTDS.TAD I 10
0670 0671 0672 0673 0674 0675 0676 0677 0700 0701	6032 1410 6953 2051 5277 5303 7040 1410 6967	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .+2 JMP SEE SEEON.CMA CONTDS.TAD I 10 DYS
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0670 0671 0672 0673 0674 0675 0676 0676 0700 0700 0700 0703 0704 0705	6032 1410 1410 6953 2051 5277 5303 7040 1410 6967 5271 2101 5277 5465	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .*2 JMP SEE SEEON.CMA CONTDS.TAD I 10 DYS JMP CRAZY SEE.ISZ TEMP JMP SEEON JMP I GHOST /ROUTINE TO ADD A CONSTANT TO /Y-COORDINATES OF THE FLYING SAUCER. /CONSTANT "CRAISE" CAN BE CHANGED /FOF YOUR OWN USE.
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0670   0671   0672   0673   0674   0675   0676   0701   0702   0703   0704   0705   0704   0705   0710   07110   0712   0713   0714	6032 1410 1410 6953 5277 5303 1410 69671 5267 5465 0800 7204 301 1042 3012 1042 3012 1042 3012 1042 3011 1410	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .+2 JMP SEE SEEON.CMA CONTDS.TAD I 10 DYS JMP CRAZY SEE.ISZ TEMP JMP SEEON JMP I GHOST /ROUTINE TO ADD A CONSTANT TO /Y-COORDINATES OF THE FLYING SAUCER. /CONSTANT "CRAISE" CAN BE CHANGED /FOR YOUR OWN USE. CHANG.0 CLA TAD CFSDAA DCA 10 TAD CFSDAA DCA 11 KEEPI.TAD I 10
0670   0671   0672   0673   0674   0675   0676   0701   0702   0703   0704   0705   0704   0705   0710   0711   0712   0713   0714   0713   0714   0715	6032 1410 1410 6953 5277 5303 1410 69271 5267 5465 0800 7204 3011 1410 7510	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .+2 JMP SEE SEEON.CMA CONTDS.TAD I 10 DYS JMP CRAZY SEE.ISZ TEMP JMP SEEON JMP I GHOST /ROUTINE TO ADD A CONSTANT TO /Y-COORDINATES OF THE FLYING SAUCER. /CONSTANT "CRAISE" CAN BE CHANGED /FOR YOUR OWN USE. CHANG.0 CLA TAD CFSDAA DCA 10 TAD CFSDAA DCA 11 KEEPI.TAD I 10 SPA
0670   0671   0672   0673   0674   0675   0676   0700   0701   0702   0703   0704   0705   0704   0705   0710   0711   0712   0713   0713   0713   0713   0713   0713   0713   0713   0713   0713   0713   0713   0714   0715   0715	6032 1410 1410 6953 5277 5040 1410 62277 5040 1410 62271 52465 0800 72042 3042 3042 3042 3042 3042 3042 3042	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .+2 JMP SEE SEEON.CMA CONTDS.TAD I 10 DYS JMP CRAZY SEE.ISZ TEMP JMP SEEON JMP I GHOST /ROUTINE TO ADD A CONSTANT TO /Y-COORDINATES OF THE FLYING SAUCER. /CONSTANT "CRAISE" CAN BE CHANGED /FOR YOUR OWN USE. CHANG.0 CLA TAD CFSDAA DCA 10 TAD CFSDAA DCA 11 KEEPI.TAD I 10 SPA JMP CONT6
0670   0671   0672   0673   0674   0675   0676   06770   0701   0702   0703   0704   0705   0706   0710   0711   0712   0713   0714   0715   0716   0713   0714   0715   0716   0717	6032 1410 1410 6953 5277 500 1410 6051 5207 1410 6067 1277 5465 600 7204 600 200 200 200 200 200 200 200 200 200	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .+2 JMP SEE SEEON.CMA CONTDS.TAD I 10 DYS JMP CRAZY SEE.ISZ TEMP JMP SEEON JMP I GHOST /ROUTINE TO ADD A CONSTANT TO /Y-COORDINATES OF THE FLYING SAUCER. /CONSTANT "CRAISE" CAN BE CHANGED /FOR YOUR OWN USE. CHANG.0 CLA TAD CFSDAA DCA 10 TAD CFSDAA DCA 11 KEEPI.TAD I 10 SPA JMP CONT6 TAD CRAISE
0670   0671   0672   0673   0674   0675   0676   0700   0701   0702   0703   0704   0705   0704   0705   0710   0711   0712   0713   0713   0713   0713   0713   0713   0713   0713   0713   0713   0713   0713   0714   0715   0715	6032 1410 1410 6953 5277 5040 1410 62277 5040 1410 62271 52465 0800 72042 3042 3042 3042 3042 3042 3042 3042	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP +2 JMP SEE SEEON.CMA CONTDS.TAD I 10 DYS JMP CRAZY SEE.ISZ TEMP JMP SEEON JMP I GHOST /ROUTINE TO ADD A CONSTANT TO /Y-COORDINATES OF THE FLYING SAUCER. /CONSTANT "CRAISE" CAN BE CHANGED /FOR YOUR OWN USE. CHANG.0 CLA TAD CFSDAA DCA 10 TAD CFSDAA DCA 11 KEEPI.TAD I 10 SPA JMP CONT6 TAD CRAISE DCA I 11
0670   0671   0672   0673   0674   0675   0676   0701   0702   0703   0704   0705   070718   0712   0712   0713   0714   0715   0717   0716   0717   0718   0717   0718   0717   0718   0717   0718   0719	6032 1410 1410 6951 5207 1410 6051 5207 1410 6071 5207 5465 600 7200 1019 1019 1019 1019 1019 1019 1019 1	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP .+2 JMP SEE SEEON.CMA CONTDS.TAD I 10 DYS JMP CRAZY SEE.ISZ TEMP JMP SEEON JMP I GHOST /ROUTINE TO ADD A CONSTANT TO /Y-COORDINATES OF THE FLYING SAUCER. /CONSTANT "CRAISE" CAN BE CHANGED /FOR YOUR OWN USE. CHANG.0 CLA TAD CFSDAA DCA 10 TAD CFSDAA DCA 11 KEEPI.TAD I 10 SPA JMP CONT6 TAD CRAISE DCA I 11 /SKIP X-COORDINATES.
0670   0671   0672   0673   0674   0675   0676   06770   0701   0702   0703   0704   0705   0706   0710   0711   0712   0713   0714   0715   0716   0713   0714   0715   0716   0717	6032 1410 1410 6953 5277 500 1410 6051 5207 1410 6067 1277 5465 600 7204 600 200 200 200 200 200 200 200 200 200	KCC CRAZY.TAD I 10 TAD I 10 DXL ISZ TEMPA JMP +2 JMP SEE SEEON.CMA CONTDS.TAD I 10 DYS JMP CRAZY SEE.ISZ TEMP JMP SEEON JMP I GHOST /ROUTINE TO ADD A CONSTANT TO /Y-COORDINATES OF THE FLYING SAUCER. /CONSTANT "CRAISE" CAN BE CHANGED /FOR YOUR OWN USE. CHANG.0 CLA TAD CFSDAA DCA 10 TAD CFSDAA DCA 11 KEEPI.TAD I 10 SPA JMP CONT6 TAD CRAISE DCA I 11 /SKIP X-COORDINATES.

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0723		JMP KEEPI
0724	5706	CONT6, JMP I CHANG
		/PRINT SUBROUTINE.
0725	0600	PRNT1.0
0726	1943	TAD M377
0727	7440	SZA
6738	5033	JMP • +3
0731	4455	JMS I CRLFEN
0738	5446	JMP & C7600
0733	1056	TAD C377
0734	6041	TSF
0735	5334	JMP
-		1LS
	7300	
Ø749	5725	JMP [ PRNTI
مرور المسلم الورز	مي الارية لية مي الارية ال	/CRLF ROUTINE .
674:	0000	CRLF®Ø
6742	7206	
	1027	TAD RETURN
0713		
0744	4325	JMS PRNTI
0745	1026	
	4323	JMS PRNTI
0747	5741	JMP I CRLF
		MAKE SURE 377 IS IN BUFFER.
0750	0000	CCHECK,0
0751	1105	TAD M300
0752	3102	DCA INCREM
		STALL LOOP TO BE SURE CHARACTER IS IN BUFFER.
0753	8105	ISZ INCREM
0754	5353	JMP 1
0735	6034	KRS
0756	3043	TAD M377
0757	7450	SNA
0760	5446	JMP 1 C7600
0761	5750	JMP I CCHECK
		1
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		/ROCKET DATA COORDINATES (X,Y).
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1002	0004	4
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1005	0060	60
1006	0010	10
1007	0050	50
1010	0010	10
1011	0069	60
1012	901 a	
1013	0044	à A
1014	0014	ž 4)
1015	0060	60
10:6	0020	20
1017	0040	40
1020	8020	20
1921	8860	60
1065	0024	24
1823	0934	34
1024	0024	24 8
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1025 0944 44

1026	0024	24
1027	0060	69
1030	0030	30
1031	0030	30
1032	0030	30
1833	0050	50
1034	2030	30
1935	0960	60
1226	8034	34
1037	0024	24
1040	0034	34
1901	0054	54
1942	893×	34
1043	0060	60
2000	80A0	40
1045	0020	20
1046	0040	40
3047	6063	60
1050	0044	44
1051	0014	14
1052	0044	44
1053	0024	24
1054	0044	44
1055	0054	54
1056	0044	44
1057	0064	64
1060	0056	50
1061	0010	10
1062	0050	56
1863	0030	30
1064	0050	50
1065	0050	50
1066	0050	50
1667	0070	70
1070	0054	54
1071	060a	A)
1072	0854	54
1073	0034	34
1074	0054	54
1075	0844	44
1076	0054	54
1077	0074	74
1100	9069	60
1101	0000	6
1102	6060	60
1103	000 a	â
1104	0060	60
1105	0010	10
1106	0060	60
1107	<b>00</b> 14	14
1110	9060	60
1111	0020	20
1115	8868	60
1113	0024	24
1114	0060	60
1115	6638	30
1116	0060	60
1117	8834	34
1120	0060 00-00	60
1123	0046 0070	40
1122	0060	60 100
1123	0108	100

1124	MOLA	64
1225	0064 0044	0 - A A
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		74.
1127	9074 0014	
1130	0064	
1131	0104	16A 7A
1132	0070	70 50
1133	0050	50
1134	9070	70
1135	0070	70
1136	0970	70
1137	0110	110
1140	0074	74
3.43	0054	54
1142	3074	74
1143	0064	64
1144	0074	74
\$ 1 45	0114	114
1:46	0100	100
1147	<b>00</b> 60	68
1150	0100	100
1151	0120	120
1152	0 <b>:9</b> 4	104
1153	0064	64
1154	0104	104
1155	6120	120
1156	0110	110
:157	<b>807</b> 0	70
1160	0110	110
1161	0120	120
1168	0114	1
1163	0074	74
1164	0114	114
1265	0120	120
1166	0120	120
1:67	0100	100
1170	0120	5 <b>2 0</b>
2373	0104	104
2172	9126	329
5173	0110	110
1174	0120	120
1175	6114	114
1176	0120	TAGRI,120
1177	0120	TAGR2,120
1200	4008	4000
1201	4000	4000
		MESSAGES ARE NOT TRIM CODE BECAUSE
		/OF THE NATURE OF THE PRINT & GET ROUTINE.
		MESSAGES STORED STARTING AT +1202
1202	0322	Messag, R
1203	0317	0
120a	Ø3Ø3	C
1205	0313	ĸ
1206	0305	5
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1262 1263 1264 1265 1400 1401	0305 0324 0256 4000 0057 1077	T PERIOD 4000 /Flying Saucer Coordinates (X,Y). *1400 Flydat,57 1077
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1471	1073	1073
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1473	1123	1123
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1477	1107	1107
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1302	0117	TAGF1,117
1593	1077	TAGF2,1077
1501	0117	117
1505	1073	1073
1506	0123	123
1507	1123	1123
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1511	1113	1113
1512	0123	123
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1515	3103	1103
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1523	1125	1125
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1325	1127	1152
1526	0127	127
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1532	0127	127
1503	1877	1877
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1535	1073	1073
1536	6131	131
1537	1125	1125
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	0133	133
1541	1123	1123
1542	0133	133
1543	1113	1113
1544	0133	133
1545	1107	1107
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1547	1103	1103
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1553	1077	1077
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1553	1973	1073
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1555	1123	1123
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1575	1977	1077
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1577	1073	1073
1600	0147	1 47
1601	1113	1113
1602		107
1603	1103	1103
1604		147
1605	1077	1077
1606	0147	147
1607	1073	1073
1619	0151	151
1611	1107	1107
1612	0153	153
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1621	1967	1067
1628	0157	
1623	1183	1103
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1627	1073	1073
1630	0157	157
1631	1963	1063
1632	0161	161
1633	:067	101
1634	Ø163	163
2635	1103	1103
1635	0163	163
1637	1977	1077
		163
1640	0163	
1641	1073	1973
1642	0163	
1643	1063	2663
1644 1645	0167	167
1645	1103	103
1646	0167	367
1647	1077	1077
3650	0167	167
1651	1973	1073
1652	0173	\$73
1653	1101	1101
1654	0173	173 1995
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1669 1661 1662	0177 1077 40 <b>90</b>	177 1077 4000 4000 /Instructions Stored Here. /IF They are not to be printed out /Put a 7000 in location 202
1669 1661 1662	0177 1077 40 <b>90</b>	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM.
1669 1661 1662	0177 1077 40 <b>90</b>	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664.
1560 1661 1662 1663	0177 1077 40 <b>90</b> 4089	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664
1560 1661 1662 1663	0177 1077 4000 4089	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT,CR
1669 1661 1662 1663 1664 1665	0177 1077 4000 4000 4000	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT,CR
1669 1661 1662 1663 1663 1665 1665	0177 1077 4000 4000 4000 0215 0215 0212 0311	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT,CR LF II
1669 1661 1662 1663 1663 1665 1665 1666	0177 1077 4090 4000 4000 9215 9212 9311 9316	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT,CR LF II N
1669 1661 1662 1663 1663 1665 1665 1666 1667	0177 1077 4090 4000 4000 9215 9212 9311 9316 9323	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT,CR LF II N S
1669 1661 1662 1663 1663 1665 1665 1666 1667 1670 1671	0177 1077 4000 4000 4000 9215 9212 9311 9316 9323 9324	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT.CR LF II N S T
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1669 1661 1662 1663 1663 1665 1665 1665 1667 1670 3671 1672 1673 1674	0177 1077 4000 4000 4000 9215 9212 9311 9316 9323 9324 9322 9325 9303	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT,CR LF II N S T R U C
1669 1661 1662 1663 1663 1665 1665 1665 1665 1667 1670 1672 1673 1673 1675	0177 1077 4090 4000 0215 0212 0311 0316 0323 9324 0322 0325 9303 0324	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT,CR LF II N S T R U C T
1669 1661 1662 1663 1663 1665 1665 1665 1666 1667 1670 1672 1673 1673 1675 1675	0177 1077 4090 4000 4000 9215 9212 9311 9316 9323 9324 9325 9323 9324 9325 9323 9324 9321	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT,CR LF II N S T R U U C T II
1669 1661 1662 1663 1665 1665 1665 1666 1667 1670 1672 1673 1675 1675 1675	0177 1077 4090 4000 4000 0215 0212 0311 0316 0323 0324 0325 0324 0325 0323 0324 0325 0323 0324 0325	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT.CR LF II N S T R U U C T II
1669 1661 1662 1663 1665 1665 1665 1666 1667 1672 1673 1673 1675 1675 1675 1675	0177 1077 4090 4000 4000 0215 0212 0311 0316 0323 0324 0322 0324 0325 0324 0325 0324 0325 0324 0325	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT,CR LF II N S T R U C N
1669 1661 1662 1663 1665 1665 1666 1667 1670 1672 1673 1675 1675 1675 1675 1677 1700 1701	0177 1077 4000 4000 4000 0215 0212 0311 0316 0323 0324 0325 0324 0325 0324 0325 0324 0325 0324 0325 0324 0325 0324 0325 0324 0325 0324 0325 0323	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT.CR LF II N S T T II O N S
1560 1661 1662 1663 1663 1665 1665 1666 1667 1670 1672 1673 1675 1675 1675 1677 1700 1701 1702	0177 1077 4000 4000 4000 0215 0212 0311 0316 0323 0324 0322 0325 0323 0324 0325 0323 0324 0311 0317 0316 0323 0324	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT.CR LF II N S T R U C C N S COLOM
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1660 1661 1662 1663 1665 1665 1666 1667 1670 1675 1675 1675 1675 1675 1675 1675 1675	0177 1077 4000 4000 0215 0212 0311 0316 0323 0324 0325 0303 0324 0325 0303 0311 0317 0316 0323 0272 0215 0212	177 1077 4000 A000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT, CR LF II N S T R U C T II O N S COLOM CR LF 14
1669 1661 1662 1663 1665 1665 1665 1667 1670 1675 1675 1675 1675 1675 1675 1675 1675	0177 1077 4090 4090 0215 0212 0311 0316 0323 0324 0325 0324 0325 0323 0324 0325 0323 0324 0325 0323 0324 0311 0317 0316 0272 0215 0212 0223	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT.CR LF II 0 N S COLOM CR LF 14
1669 1661 1662 1663 1665 1665 1665 16670 1677 1673 1675 1677 1675 1677 1700 1700 1703 1705	0177 1077 4090 4090 0215 0212 0311 0316 0323 0324 0325 0324 0325 0324 0325 0324 0325 0324 0325 0323 0324 0317 0316 0323 0272 0215 0320	177 1077 4000 4000 /INSTRUCTIONS STORED HERE. /IF THEY ARE NOT TO BE PRINTED OUT /PUT A 7000 IN LOCATION 202 /BEFORE STARTING THE PROGRAM. /OR PUT A 4000 (- #) IN LOCATION 1664. *1664 INSDAT.CR LF II N S COLOM CR LF 14 S P
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1725	0275	EQUAL.
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	2020	9248	SPACE
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2105 2106 2110 2111 21112 21112 21114 21115 21117 21123 21123 2123 2123 2125 2127	0240 0304 0325 0322 0311 0316 0307 0240 0304 0324 0324 0324 0324 0324 0324	SPACE D U R II N G SPACE D II S P L A Y PERIOD CR LF 4000 /TABLE OF A=301 B=302 C=303 D=304 E=305 F=306	LETTERS	AND	THEIR	ASCII	VALUE	IN C	CTAL.
		F=306 G=307 M=310							
		11=311 J=312							
		K=313 L=314							
		M=315 N=316							
		0=317							
		P=320 0=321							
		R=322							
		S=323 T=324							
		U=325							
		V=326 W= <b>3</b> 27							
		X=330							
		Y=331 ZZ=332							
		0NE=261 T <b>W0=262</b>							
		THREE=263							
		Four=264 Five=265							
		SIX=266							
		SEVEN=267 EIGHT=270							
		NINE=271							
		ZER0=260 EX=241 /!							
		QUOTE 242							
		NUMSIN=24 Dollar=24							
		PERCNT=24	5		17				
		A 648750 - 0 AL	12						

SQUOTE=247 /' LPAR=250 **RPAR=251** ASTER=252 PLUS=253 COMMA=254 MINUS=255 PERIOD=256 NSLASH=257 COLON=272 SEMCOL=273 LT=274 EQUAL=275 GT=276 QUES=277 ATSIGN=300 LBRAK=333 LSLASH=334 RBRAK=335 LAR=337 LF=212 SPACE=240 CR=215 BELL=207 Α 0301 AMPER 0246 ASTER 0252 ATSIGN 0306 В 0302 BEGIN 0200 BELL 0207 С 0303 CCHECK 0750 **CF SDAA** 0042 CFSDAP 0041 CFSDAT 0040 CFI 0070 CF2 0071 CHAN 0072 CHANG 0706 CHECK 0100 CHIT 0063 CNT 0053 COLON 0272 COMMA 0254 CONT 0437 CONTDS 0700 CONTES 0260 CONTUE 0306 CONT1 0536 CONT3 0314 CONT5 0333 CONT6 0724 COUNTF 0035 COUNTR 0034 CR 0215 CRAISE 0057 CRAZ @665 CRAZY 0671 CRLF 0741

CRLFEN

Amam.

0055

CROCKP	ØØ36
CRI	0066
CR2	9067
Cl	ØØ3 <b>3</b>
C50	9069
C377	0056
C7	0847
C7600	0046
0	0304
DIVID	0214
DIVIDE	
DOLLAR	0244
See.	0305
eight	0270
equal	0275
EX	0241
F	0306
51 VE	0265
FLY	0500
FLYDAT	1400
FOUR	0264
FS	0074
FSINI	0520
G	0307
GET	0276
GETCAR	0316
GETSTR	0271 0065
GNOST	0240
goon goon1	0432
GOON2	0531
Gĩ	0276
N.	0310
	0311
INCREM	0102
INSDAT	1664
INSTUP	0103
INSTR	0032
3	0312
ĸ	0313
KEEP1	0714
L	0314
lar	0337
LBRAK	Ø333
LF	9212
linefo	0026
LPAR	0250
LSLASH	0334
LT	0274
M	0315
MESCNT	0014
MESSAG	0031
MFS	1202 0023
MHET	0023
MINUS	0255
MRETUR	0025
MROCK	0025
M100	0104
M1600	
	0044
M3	0044 0054
M3 M3Ø0	

M377	9 <b>94</b> 3
N	0316
NINE	Ø271
NSLASH	0257
NUMSIN	0243
0	0317
ONE	0261
P	0320
PERCNT	0245
	0256
PLUS	0253
PRNT	0061
PRNTI	0725
PUTIN	Ø232
0	0321
QUES	8277
QUOTE	0242
R	0322
RBRAK	0335
RESET	0401
RESETT	0501
REST	0206
	0027
ROCDAT	1000
ROCIN	0421
-	
ROCINI	0075
ROCKET	0073
ROCKT	0400
RPAR	0251
RSTALL	<del>0</del> 443
S	Ø323
0	
SAUINI	0076
-	
SAUINI	0076
SAUINI SEE	0076 0703
SAUINI SEE SEEON SEMCOL	0076 0703 0677
SAUINI SEE SEEON	0076 0703 0677 0273
SAUINI SEE SEEON SEMCOL SEVEN SIX	0076 0703 0677 0273 0267 0266
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE	0076 0703 0677 0273 0267 0266 0240
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF	0076 0703 0677 0273 0267 0266 0240 0021
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDR	0076 0703 0677 0273 0267 0266 0240 0021 0020
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDR SQUOTE	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDR SQUOTE STAL	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SQUOTE STAL STALL	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDR SQUOTE STAL STALL STALL START	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0027 0024
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPACE SPEEDF SPEEDR SQUOTE STAL STALL STALL START	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 9236 0406
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDR SQUOTE STAL STALL STALL START STARTA STARTA	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0024 0077 0236 0406 0506
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDR SQUOTE STAL STALL STALL START STARTA STARTA STARTT SYM	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0024 00277 0024 0077 0236 0406 0506 0030
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDF SQUOTE STAL STALL STALL START STARTA STARTA STARTT SYM T	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0030 0324
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDR SQUOTE STAL STALL STALL START STARTA STARTA STARTA STARTT SYM T TAGF 1	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0030 0324 1502
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDF SQUOTE STAL STALL STALL START STARTA STARTA STARTT SYM T	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0030 0324 1502 1503
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDR SQUOTE STAL STALL STALL START STARTA STARTA STARTA STARTT SYM T TAGF 1	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0406 0506 0324 1502 1503 1176
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDR SQUOTE STAL STALL STALL START STARTA STARTA STARTT SYM T TAGF1 TAGF2	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0030 0324 1502 1503
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDR SQUOTE STAL STALL STALL STALL STALL START STARTA STARTT STARTA STARTT SYM T TAGF1 TAGF2 TAGR1	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0406 0506 0324 1502 1503 1176
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDF SPEEDF SPEEDF SPEEDF SPEEDF SPEEDF SPEEDF SPEEDF SPEEDF STAL STALL STALL STALL START STARTA STARTA STARTT SYM T TAGF1 TAGF2 TAGR1 TAGR2	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0030 0324 1502 1503 1176 1177
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDR SQUOTE STAL STALL STALL STALL START STARTA STA	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0030 0324 1503 1176 1177 0101
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDF SPEEDF STAL STALL STALL STALL START STARTA STA	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0030 0324 1502 1503 1176 1177 0101 0051
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDF SPEEDF STAL STALL STALL STALL START START STARTA STAR	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0030 0324 1502 1503 1176 1177 0101 0051 0052
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDF SPEEDF STAL STALL STALL STALL START STARTA STA	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0030 0324 1503 1176 1177 0101 0052 0600 0962
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDF SPEEDF STAL STALL STALL STALL START STARTA STA	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0406 0506 0030 0324 1503 1176 1177 0101 0051 0052 0600 0962 0633
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF STAL START STARTA	0076   0703   0677   0273   0267   0267   0267   0267   0267   0267   0267   02273   0267   0267   0267   0267   0266   0021   0020   0247   0020   0247   0020   0247   0020   0247   0020   0247   0020   0247   0020   0247   0020   0247   0020   0247   0024   0077   0236   0406   052   0609   0952   0633   0633   0633
SAUINI SEE SEEON SEMCOL SEVEN SIX SPACE SPEEDF SPEEDF SPEEDF SPEEDF STAL STALL STALL STALL START STARTA STA	0076 0703 0677 0273 0267 0266 0240 0021 0020 0247 0024 0077 0236 0406 0506 0406 0506 0030 0324 1503 1176 1177 0101 0051 0052 0600 0962 0633

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U	0325
V	0326
W	0327
X	0330
XCO	0010
XCOO	0012
XPUT	0011
XPUTT	0013
XR	0064
Y	Ø331
ZERO	0260
22	Ø332